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Reviewer: markspencer

Timestamp: [year=2007; month=12; day=27; hr=15; min=7; sec=26; ms=896; ]

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Application No: 10539992 Version No: 2.0

**Input Set:****Output Set:**

**Started:** 2007-12-07 12:58:17.930  
**Finished:** 2007-12-07 12:58:20.744  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 814 ms  
**Total Warnings:** 42  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 118  
**Actual SeqID Count:** 118

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W 402	Undefined organism found in <213> in SEQ ID (48)
W 213	Artificial or Unknown found in <213> in SEQ ID (49)
W 213	Artificial or Unknown found in <213> in SEQ ID (50)
W 213	Artificial or Unknown found in <213> in SEQ ID (51)
W 213	Artificial or Unknown found in <213> in SEQ ID (52)
W 213	Artificial or Unknown found in <213> in SEQ ID (53)
W 213	Artificial or Unknown found in <213> in SEQ ID (54)
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W 213	Artificial or Unknown found in <213> in SEQ ID (57)
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W 213	Artificial or Unknown found in <213> in SEQ ID (59)
W 402	Undefined organism found in <213> in SEQ ID (61)
W 213	Artificial or Unknown found in <213> in SEQ ID (63)
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W 213	Artificial or Unknown found in <213> in SEQ ID (65)
W 213	Artificial or Unknown found in <213> in SEQ ID (66)

**Input Set:**

**Output Set:**

**Started:** 2007-12-07 12:58:17.930

**Finished:** 2007-12-07 12:58:20.744

**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 814 ms

**Total Warnings:** 42

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**No. of SeqIDs Defined:** 118

**Actual SeqID Count:** 118

Error code	Error Description
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## SEQUENCE LISTING

<110> KURODA, Masaharu

<120> Plant with Reduced Protein Content in Seed, Method of  
Constructing the Same and Method of Using the Same

<130> 59150-8035

<140> 10539992

<141> 2007-12-07

<150> PCT/JP2003/015753

<151> 2003-12-09

<150> JP 2002-369700

<151> 2002-12-20

<160> 118

<170> PatentIn version 3.3

<210> 1

<211> 617

<212> DNA

<213> Oryza sativa

<220>

<223> 13kD prolamine RM9

<400> 1

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cgtaaggcag cagtgcagca cagtggcaac ccccttcttc caatcaccog tgtttcaact    240
gagaaactgc caagtcatgc agcagcagtg ctgccaacag ctcaggatga tcgcacaaca    300
gtctcactgc caggccatta gcagtgttca ggctattgtg cagcagctac ggctacaaca    360
gtttgctagc gtctacttcg atcagagtca agctcaagcc caagctatgt tggccctaaa    420
catgccgtca atatgcggtg tctacccaag ctacaacact gtcacctgta gcattcccac    480
cgtcgggtgt atctggtatt gaattgtagc agtatagtag tacaggagag aaaaataaag    540
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<213> Oryza sativa

<220>

<223> 13kD prolamine RM9

<400> 2

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Ala Ser Ala Gln Phe Asp Ala Val Thr Gln Val Tyr Arg Gln Tyr Gln
20             25             30
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Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile  
                   85                                  90                                  95  
 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Val Gly  
                   100                                  105                                  110  
 Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala  
                   115                                  120                                  125  
 Leu Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala  
                   130                                  135                                  140  
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 <213> Oryza sativa

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 cgcgccccat cccgggtgcgc gacccatcgt tcacacagtt caagcattat acagaaaaat 180  
 agaaagatct agtgctccgc agcaatgaag atcattttcg tctttgctct cettgctatt 240  
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 ctgcagtcgc ctgtcctgct acagcaacag gtgcttagcc catataatga gttcgtaagg 360  
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 gttcaggcca tagcgtagca gctacaactc cagcaatttg gtgatctcta ctttgatcgg 540  
 aatcaggctc aagctcaagc tctattggct tttaacgtgc catctagata tggtagctac 600  
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 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamine

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                   20                                  25                                  30  
 Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn  
                   35                                  40                                  45  
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
                   50                                  55                                  60  
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln His Gln Ala  
 65                                  70                                  75                                  80  
 Gly Gly Gln Gln Ser Arg Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile  
                   85                                  90                                  95  
 Ala Tyr Glu Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg  
                   100                                  105                                  110

Asn Gln Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg  
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130 135 140  
Leu Gly Gly Val Leu  
145

<210> 7  
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<212> DNA  
<213> Oryza sativa

<220>  
<223> 13kD prolamine

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caagtattat acagaaaaat agaaagatct agtgccccgc agcaatgaag atcattttcg 180  
tctttgctct ccttgctatt gctgcatgca gcgcctctgc gcagtttgat gttttaggac 240  
aaagttatag gcaatatcag ctgcagtcgc ctgtcctgct acagcaacag gtgcttagcc 300  
catataatga gttcgtaagg cagcagtatg gcatagcggc aagccccttc ttgcaatcag 360  
ctgcatttca actgagaaac aaccaagtct ggcaacagct cgcgctggtg gcgcaacaat 420  
ctcactatca ggacattaac attgttcagg ccatagcgca gcagctacaa ctccagcagt 480  
ttggtgatct ctactttgat cggaatctgg ctcaagctca gttggctttt aacgtgccat 540  
ctagatatgg tatctaccct aggtactatg gtgcacccag taccattacc acccttggcg 600  
gtgtcttgta atgtgtttta acaaggtata gtggttcgga agttaaaaat aagctcagat 660  
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<210> 8  
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<212> PRT  
<213> Oryza sativa

<220>  
<223> 13kD prolamine

<400> 8  
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Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn  
35 40 45  
Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
50 55 60  
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala  
65 70 75 80  
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala  
85 90 95  
Ile Ala Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp  
100 105 110  
Arg Asn Leu Ala Gln Ala Gln Leu Ala Phe Asn Val Pro Ser Arg Tyr  
115 120 125  
Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu  
130 135 140  
Gly Gly Val Leu

145

<210> 9  
<211> 650  
<212> DNA  
<213> *Oryza sativa*

<220>  
<223> 13kD prolamine

<400> 9  
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attacagcga aagcataaca actagaatcc taccacaatg aagatcattt tcttctttgc 180  
tctccttgct gaagctgcat gtagegcctc tgcgcagttt gatgctgtta ctcaagttta 240  
caggcaatat cagctgcagc aacagatgct tagcccatgc ggtgagttcg taaggcagca 300  
gtgcagcaca gtggcaaccc ctttcttcca atcaccctg tttcaactga gaaactgcc 360  
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ggccattagc agtgttcagg cgattgtgca gcagctacag ctacaacagt tttctggcgt 480  
ctacttcgat caggctcaag ctcaagccca agtatgttg ggccctaaact tgccgtcaat 540  
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gtactgattg acgagataga gacagggaaa taagcatgat catcggggct 650

<210> 10  
<211> 149  
<212> PRT  
<213> *Oryza sativa*

<220>  
<223> 13kD prolamine

<400> 10  
Met Lys Ile Ile Phe Phe Phe Ala Leu Leu Ala Glu Ala Ala Cys Ser  
1 5 10 15  
Ala Ser Ala Gln Phe Asp Ala Val Thr Gln Val Tyr Arg Gln Tyr Gln  
20 25 30  
Leu Gln Gln Gln Met Leu Ser Pro Cys Gly Glu Phe Val Arg Gln Gln  
35 40 45  
Cys Ser Thr Val Ala Thr Pro Phe Phe Gln Ser Pro Val Phe Gln Leu  
50 55 60  
Arg Asn Cys Gln Val Met Gln Gln Gln Cys Cys Gln Gln Leu Arg Met  
65 70 75 80  
Ile Ala Gln Gln Ser His Cys Gln Ala Ile Ser Ser Val Gln Ala Ile  
85 90 95  
Val Gln Gln Leu Gln Leu Gln Gln Phe Ser Gly Val Tyr Phe Asp Gln  
100 105 110  
Ala Gln Ala Gln Ala Gln Ala Met Leu Gly Leu Asn Leu Pro Ser Ile  
115 120 125  
Cys Gly Ile Tyr Pro Ser Tyr Asn Thr Val Pro Glu Ile Pro Thr Val  
130 135 140  
Gly Gly Ile Trp Tyr  
145

<210> 11  
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<212> DNA  
<213> *Oryza sativa*



<220>

<223> 13kD prolamine

<400> 11

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atatcaacta caatcgcatc tccagctaca gcaacaagtg ctcagcccat gcagtgagtt    180
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gataaacaac caagtcatgc agcaacagtg ttgccaacag ctcaggctgg tagcgcaaca    300
atctcactac caggccatta gtagcgttca ggcgattgtg cagcaactac agctgcagca    360
ggtcgggtgt gtctactttg atcagactca agctcaagct caagctttgc tggccttaaa    420
cttgccatcc atatgtggta tctatcctaa ctactacatt gctccgagga gcattccac    480
cgttggtgtg tctggtactg aattgtaata gtataatggg tcaaagtta aaaataaagt    540
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<210> 12

<211> 158

<212> PRT

<213> Oryza sativa

<220>

<223> 13kD prolamine

<400> 12

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          20           25           30
Leu Gln Ser His Leu Gln Leu Gln Gln Gln Val Leu Ser Pro Cys Ser
          35           40           45
Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln
          50           55           60
Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys
65           70           75           80
Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile
          85           90           95
Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Val Gly
          100          105          110
Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala
          115          120          125
Leu Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala
          130          135          140
Pro Arg Ser Ile Pro Thr Val Gly Val Ser Gly Thr Glu Leu
145           150           155
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<210> 13

<211> 603

<212> DNA

<213> Oryza sativa

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agtgggtgtct actttgatca gactcaagct caagcccaaa ctctgttgac cttcaacttg 420
ccatccatat gtggtatcta ccctaactac tatagtgtc ccaggagcat tgccactgtt 480
gggtgggtgtc ggtactgaat tgtaacaata taatagttcg tatgttaaaa ataaagtcac 540
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<220>  
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20        25        30
Leu Gln Ser His Leu Leu Leu Gln Gln Gln Val Leu Ser Pro Cys Ser
35        40        45
Glu Phe Val Arg Gln Gln Tyr Ser Ile Val Ala Thr Pro Phe Trp Gln
50        55        60
Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys
65        70        75        80
Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile
85        90        95
Ser Ile Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Phe Ser
100       105       110
Gly Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Thr Leu Leu Thr
115       120       125
Phe Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ser Ala
130       135       140
Pro Arg Ser Ile Ala Thr Val Gly Gly Val Trp Tyr
145       150       155

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 <213> *Oryza sativa*

<220>  
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atattaggca atatcagggtg cagtcgcctc tcctgctaca gcaacagggtg cttagcccat 180
ataatgagtt cgtaaggcag cagtatagca ttgcggcaag caccttcttg caatcagctg 240
cgtttcaact gagaaacaac caagtcttgc aacagctcag gctgggtggcg caacaatctc 300
actaccagga cattaacgtt gtccaggcca tagcgcacca gctacacctc cagcagtttg 360
gcaatctcta cattgaccgg aatctggctc aagctcaagc actgttgget tttaacttgc 420

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<210> 16
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<212> PRT
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<220>
<223> 13kD prolamine

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Ala Thr Ala Gln Phe Asp Val Leu Gly Gln Asn Ile Arg Gln Tyr Gln
          20          25          30
Val Gln Ser Pro Leu Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn
          35          40          45
Glu Phe Val Arg Gln Gln Tyr Ser Ile Ala Ala Ser Thr Phe Leu Gln
          50          55          60
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Leu Gln Gln Leu Arg
65          70          75          80
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Val Val Gln Ala
          85          90          95
Ile Ala His Gln Leu His Leu Gln Gln Phe Gly Asn Leu Tyr Ile Asp
          100          105          110
Arg Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Leu Pro Ser
          115          120          125
Thr Tyr Gly Ile Tyr Pro Trp Se

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